

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack

Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

1/25

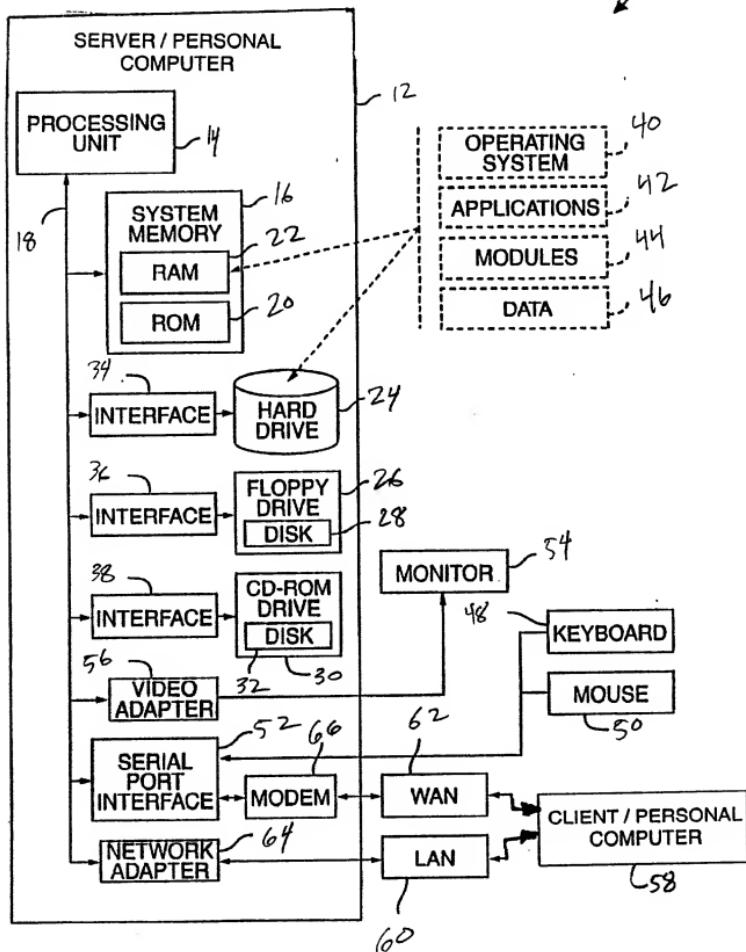


Figure 1

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack
Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

2/25

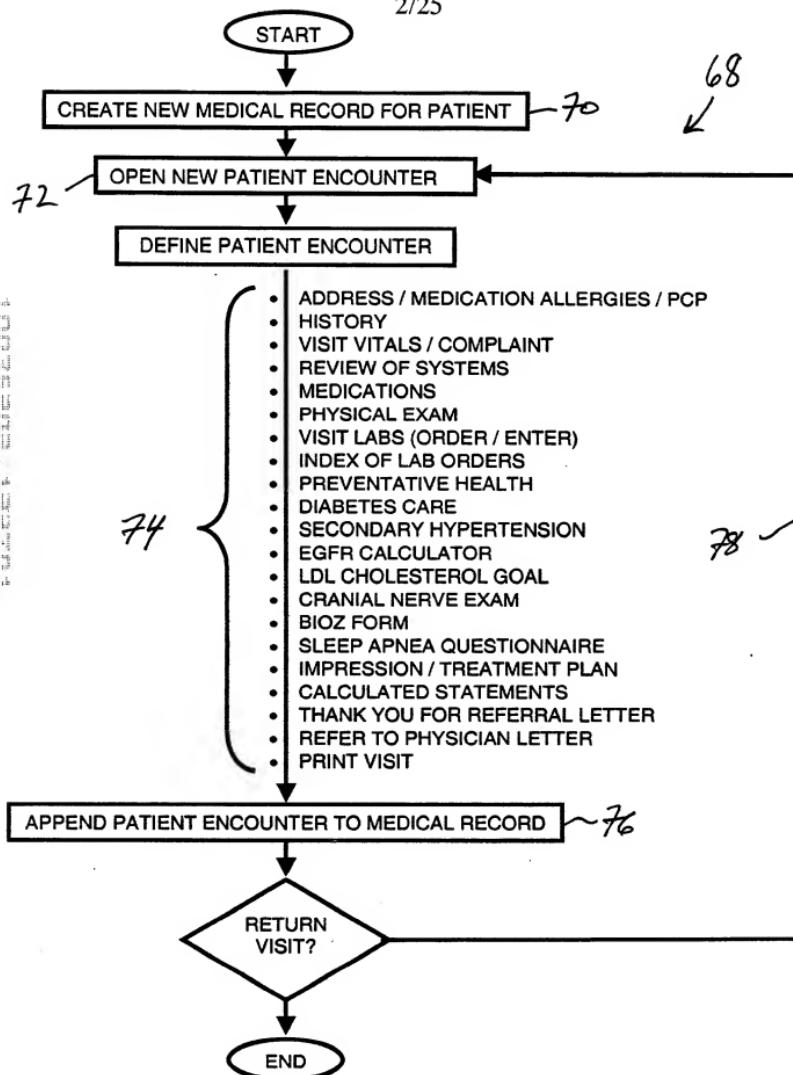


Figure 2

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack
Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

3/25

Microsoft Access

File Edit Insert Records Window Utilities Add To List Medication Table Treatment Algorithms View Summary Help

Patient Information

82 84 88 90 92

Patient Demographics Referring / Primary Physician Information

Last Name: Doc Medical Record Number: 99-99-9999
First Name: John MR: A Social Security Number: 123-12-1234
DOB: 03/05/1925
Gender: Male Please select the physician
Race: African-American this patient will or is currently seeing in this clinic
Address: 123 First Street
City, State, Zip: Detroit MI 49380 Clinic Physician:
Home Phone: (313) 123-5555 Work: (313) 123-2323
Email Address:
Drug Allergies:

Comments: 96

86 94 98

Medication Allergies:

- Full a Medication
- Sulfa Medication
- sulfamethoxazole
- Sulindac/Clinoril
- SuperEPA Softgels
- Suprax
- Surfak / Docusate Calcium
- Sumomist
- Survanta

80 →

Fig. 3

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack
Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

4/25

Patient Encounter Summary

Patient: Doe, John SSN: 123-12-1234 Close

New Visit / Encounter to Add: [] Select Lab Visit: []

View Encounter Type Contact Date

(most current visit listed first)

<input type="checkbox"/> Initial Visit	01/03/1999
<input type="checkbox"/> Telephone	12/12/2000
<input checked="" type="checkbox"/> Return	11/02/2000
<input type="checkbox"/> Telephone	10/16/2000
<input type="checkbox"/> Telephone	10/03/2000
<input type="checkbox"/> Telephone	10/07/2000
<input type="checkbox"/> Emergency Room	09/26/2000
<input type="checkbox"/> Telephone	09/10/2000
<input type="checkbox"/> Telephone	06/24/2000
<input type="checkbox"/> Telephone	06/23/2000
<input type="checkbox"/> Return	01/21/2000
<input type="checkbox"/> Nurse	01/11/2000
<input type="checkbox"/> Other	12/21/2000

Address / Medication Allergies / PCP

BioZ Form

Calculated Statements

Cranial Nerve Exam

Diabetes Care

EGFR Calculator

History

Impression / Treatment Plan

Index of Lab Orders

LDL Cholesterol Goal

Medications

Physical Exam

Preventive Health

Refer To Physician Letter

Review of Systems

Secondary Hypertension

Sleep Apnea Questionnaire

Thank You for Referral Letter

Visit Labs (Order / Enter)

Visit Vitalz / Complaint

Print Visit

Delete Visit

102 ↗

Fig. 4

107

103 {
104 }

105 }

**Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION**

First Named Inventor: John M. Flack
Application Serial No.: / Atty. Docket No.: MTS 0102 PLUS

5/25

MedTrace

File Edit Insert Records Window Add To List Medication Table Treatment Algorithms View Summary Help

Patient History Form

Patient Name: John Doe SSN: 123-12-1234 Unlock/Edit History Outline Changed Fields Close

Blood Pressure Cardiovascular / Renal Family / Personal History Non-Drug Allergies

120 / 122 / 129 / 116 / 126 / 118

Yes Hypertension
 Hypertension Diagnosis Date: [non-formatted date field]
 Duration of hypertension: years
 Highest known systolic blood pressure: mm Hg
 Highest known diastolic blood pressure: mm Hg
 # ER visits for hypertension:
 Last ER visit for hypertension: [non-formatted date field]
 # hospitalizations for HTN:
 Last hospitalization for hypertension: [non-formatted date field]
 How many times per week do you forget to take your BP medication?

128

Fig. 5

112

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION
First Named Inventor: John M. Flack
Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

6/25

[Initial Visit Form [Comprehensive]]

Patient: Doe, John

Close

SSN: 123-12-1234

Date of Visit: 01/03/1999

Presenting Complaint Problem List Visit Vitals

134

144

Problem(s): Select from drop-down list choices here or use "Check Sheet".

Check Sheet

Problems:	Comments:	Yes=Resolved, ▲ No=Continues:
Hypertension	-	▼
Dyspnea on Exertion	► block, probable cause emphysema	▼
► Asthma	-	▼
* [empty]	-	▼

Other Problems: Enter free text in this section for problems not available above.

Problems (free text):	Comments:	Yes=Resolved, ▲ No=Continues:
► Mild global dysfunction; EF 45-50%	-	▼
Valvular heart disease; mild AI, MR,	-	▼
Severe annular mitral calcification	-	▼
Ascites	-	▼
ant. mitral valve prolapse	-	▼

Fig. 6

130 ↗

140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
990
991
992
993
994
995
996
997
998
999
1000
1001
1002
1003
1004
1005
1006
1007
1008
1009
1000
1001
1002
1003
1004
1005
1006
1007
1008
1009
1010
1011
1012
1013
1014
1015
1016
1017
1018
1019
1010
1011
1012
1013
1014
1015
1016
1017
1018
1019
1020
1021
1022
1023
1024
1025
1026
1027
1028
1029
1020
1021
1022
1023
1024
1025
1026
1027
1028
1029
1030
1031
1032
1033
1034
1035
1036
1037
1038
1039
1030
1031
1032
1033
1034
1035
1036
1037
1038
1039
1040
1041
1042
1043
1044
1045
1046
1047
1048
1049
1040
1041
1042
1043
1044
1045
1046
1047
1048
1049
1050
1051
1052
1053
1054
1055
1056
1057
1058
1059
1050
1051
1052
1053
1054
1055
1056
1057
1058
1059
1060
1061
1062
1063
1064
1065
1066
1067
1068
1069
1060
1061
1062
1063
1064
1065
1066
1067
1068
1069
1070
1071
1072
1073
1074
1075
1076
1077
1078
1079
1070
1071
1072
1073
1074
1075
1076
1077
1078
1079
1080
1081
1082
1083
1084
1085
1086
1087
1088
1089
1080
1081
1082
1083
1084
1085
1086
1087
1088
1089
1090
1091
1092
1093
1094
1095
1096
1097
1098
1099
1090
1091
1092
1093
1094
1095
1096
1097
1098
1099
1100
1101
1102
1103
1104
1105
1106
1107
1108
1109
1100
1101
1102
1103
1104
1105
1106
1107
1108
1109
1110
1111
1112
1113
1114
1115
1116
1117
1118
1119
1110
1111
1112
1113
1114
1115
1116
1117
1118
1119
1120
1121
1122
1123
1124
1125
1126
1127
1128
1129
1120
1121
1122
1123
1124
1125
1126
1127
1128
1129
1130
1131
1132
1133
1134
1135
1136
1137
1138
1139
1130
1131
1132
1133
1134
1135
1136
1137
1138
1139
1140
1141
1142
1143
1144
1145
1146
1147
1148
1149
1140
1141
1142
1143
1144
1145
1146
1147
1148
1149
1150
1151
1152
1153
1154
1155
1156
1157
1158
1159
1150
1151
1152
1153
1154
1155
1156
1157
1158
1159
1160
1161
1162
1163
1164
1165
1166
1167
1168
1169
1160
1161
1162
1163
1164
1165
1166
1167
1168
1169
1170
1171
1172
1173
1174
1175
1176
1177
1178
1179
1170
1171
1172
1173
1174
1175
1176
1177
1178
1179
1180
1181
1182
1183
1184
1185
1186
1187
1188
1189
1180
1181
1182
1183
1184
1185
1186
1187
1188
1189
1190
1191
1192
1193
1194
1195
1196
1197
1198
1199
1190
1191
1192
1193
1194
1195
1196
1197
1198
1199
1200
1201
1202
1203
1204
1205
1206
1207
1208
1209
1200
1201
1202
1203
1204
1205
1206
1207
1208
1209
1210
1211
1212
1213
1214
1215
1216
1217
1218
1219
1210
1211
1212
1213
1214
1215
1216
1217
1218
1219
1220
1221
1222
1223
1224
1225
1226
1227
1228
1229
1220
1221
1222
1223
1224
1225
1226
1227
1228
1229
1230
1231
1232
1233
1234
1235
1236
1237
1238
1239
1230
1231
1232
1233
1234
1235
1236
1237
1238
1239
1240
1241
1242
1243
1244
1245
1246
1247
1248
1249
1240
1241
1242
1243
1244
1245
1246
1247
1248
1249
1250
1251
1252
1253
1254
1255
1256
1257
1258
1259
1250
1251
1252
1253
1254
1255
1256
1257
1258
1259
1260
1261
1262
1263
1264
1265
1266
1267
1268
1269
1260
1261
1262
1263
1264
1265
1266
1267
1268
1269
1270
1271
1272
1273
1274
1275
1276
1277
1278
1279
1270
1271
1272
1273
1274
1275
1276
1277
1278
1279
1280
1281
1282
1283
1284
1285
1286
1287
1288
1289
1280
1281
1282
1283
1284
1285
1286
1287
1288
1289
1290
1291
1292
1293
1294
1295
1296
1297
1298
1299
1290
1291
1292
1293
1294
1295
1296
1297
1298
1299
1300
1301
1302
1303
1304
1305
1306
1307
1308
1309
1300
1301
1302
1303
1304
1305
1306
1307
1308
1309
1310
1311
1312
1313
1314
1315
1316
1317
1318
1319
1310
1311
1312
1313
1314
1315
1316
1317
1318
1319
1320
1321
1322
1323
1324
1325
1326
1327
1328
1329
1320
1321
1322
1323
1324
1325
1326
1327
1328
1329
1330
1331
1332
1333
1334
1335
1336
1337
1338
1339
1330
1331
1332
1333
1334
1335
1336
1337
1338
1339
1340
1341
1342
1343
1344
1345
1346
1347
1348
1349
1340
1341
1342
1343
1344
1345
1346
1347
1348
1349
1350
1351
1352
1353
1354
1355
1356
1357
1358
1359
1350
1351
1352
1353
1354
1355
1356
1357
1358
1359
1360
1361
1362
1363
1364
1365
1366
1367
1368
1369
1360
1361
1362
1363
1364
1365
1366
1367
1368
1369
1370
1371
1372
1373
1374
1375
1376
1377
1378
1379
1370
1371
1372
1373
1374
1375
1376
1377
1378
1379
1380
1381
1382
1383
1384
1385
1386
1387
1388
1389
1380
1381
1382
1383
1384
1385
1386
1387
1388
1389
1390
1391
1392
1393
1394
1395
1396
1397
1398
1399
1390
1391
1392
1393
1394
1395
1396
1397
1398
1399
1400
1401
1402
1403
1404
1405
1406
1407
1408
1409
1400
1401
1402
1403
1404
1405
1406
1

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION
First Named Inventor: John M. Flack
Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

7/25

Initial Visit Form (Comprehensive)

Patient: Doe, John Close

SSN: 123-12-1234

Date of Visit: 01/03/1999

Presenting Complaint | Problem List | Visit Vitals |

Height(in): 69 Weight(lbs): 166.5 BMI (kg/m²): 24.6 Pulse(bpm): 74 Regular
 Irregular

Resp/min: 18 Temp(F): 99

Cuff to be used for visit BP: Large adult Aim to be used for visit BP: Right

148 }
150 {

Seated Blood Pressures:			Standing Blood Pressures:		
Systolic:	Diastolic:	Arm:	Systolic:	Diastolic:	Arm:
155	90	Left	144	88	Right
160	95	Right			
152	154	156			

Open BP Trend Graph

BP Summary | Left Arm | Right Arm

Fig. 7

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack
Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

8/25

Visit BP Summary

Close

Visit data indicates that the patient is NOT AT GOAL
Blood Pressure

Goal Blood Pressure Less Than: 130/85

Avg SBP this visit: 138.0 } 160
Avg DBP this visit: 80.0 } 162
Avg MAP this visit: 93.3 } 164

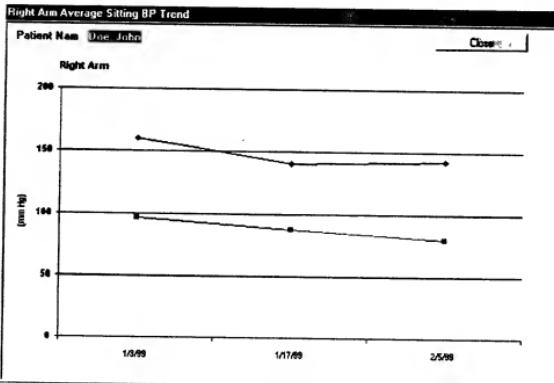
Change in Average Pressures (mmHg) from Previous Visit

1/17/99 2/5/99 BP Change

Systolic: 140.0 -> 138.0 = -2.0 }
Diastolic: 88.0 -> 80.0 = -8.0 }
Mean Arterial (MAP): 105.3 -> 93.3 = -12.0 }

Section is blank if Initial Visit or when no data is available for the arm selected.

158 → Fig. 8



168 → Fig. 9

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack

Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

9/25

Review of Systems

Patient: Doe, John

SSN: 123-12-1234

[Unlock/Edit Form](#)

[Close](#)

Review Date: 01/03/1999

This Form is Currently Unlocked

Neurological	Endocrine	Hematologic/Lymphatic	Allergic/Immunologic	Psychiatric	Reproductive
Constitutional	Eyes ENMT	Respiratory GI	Genitourinary	Psychosexual	Musculoskeletal Integumentary

Positive 174

Constitutional:

Finding:

Exercise intolerance*

Comment [free text]:

Out of breath after walking short distance



Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION
First Named Inventor: John M. Flack
Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

10/25

178

180

184

182

187

188

176 →

Fig. 11

Medications Form

Patient: Doe, John
SSN: 123-12-1234

Open Medication Summary | Print Prescriptions | Close

Medication	Dose	Units	Freq	Prior V1	Start Date	Stop Date	Cont	#Refills	#Pills/Vials
Nephrocaps	-	-	1QD	Yes	01/01/1996	-	Yes	-	Rx <input checked="" type="checkbox"/>
Comment:	He is unsure of dose								
Accupril /Quinapril	10	mg	BID	Yes	05/15/1998	-	Yes	5	66
Accupril /Quinapril	-	-	-	-	-	-	-	-	Rx <input checked="" type="checkbox"/>
ACE inhibitor	-	-	-	-	-	-	-	-	-
Acetabtol / Sectral	-	-	-	-	-	-	-	-	-
Acetaminophen	-	-	-	-	-	-	-	-	-
Achromycin	-	-	-	-	-	-	-	-	-
AcipHex / Rabeprazole Sodium	-	-	-	-	-	-	-	-	-
Acro-Lase	-	-	-	-	-	-	-	-	-

Combination Medication Entry Tool: Enter combination medication info. and click the Append to Medication List button.

Combination Medication: Frequency: Start Date: Stop Date: Cont: Prior V1: Append to Patient Medication List: (required) (required)

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack

Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

11/25

Physical, Impression and Plan

Patient: Doe, John

SSN: 123-12-1234

Date: 01/03/1999

Close

General | HEENT | Neck | Lung | Heart | Musculoskeletal | Abdomen | Neuro | Breasts | Skin | Extremities | Rectal | ← 194

Abnormal → 198

200

Abnormal Lung Findings:

- rales-equal R and L
- * Dullness to percussion
- rales L>R
- rales R>L
- rales-basilar
- rales-equal R and L
- rhonchi
- wheezes-bilateral
- wheezes-end-expiratory

Other Lung Findings (free text):

- involves one-quarter posterior lung fields bilaterally

192 →

Fig. 12

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack
Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

12/25

Visit Lab Orders

Patient: Doe, John
SSN: 123-12-1234
Date of Visit: 01/03/1999

Close

Open Lab Visit for this Order

214

Current Lab Orders:

Lab Orders	
<input checked="" type="checkbox"/> Urine Albumin	208
<input checked="" type="checkbox"/> Crea (Serum)	
<input type="checkbox"/> 24hr Blood Pressure Monitor	

Check Sheet:

Cancel Order	Order Checked Labs
<input type="checkbox"/> CBC	
<input type="checkbox"/> Cholesterol	
<input type="checkbox"/> CK	
<input type="checkbox"/> CPK	
<input checked="" type="checkbox"/> Crea [Serum]	
<input type="checkbox"/> CT scan-Head	
<input type="checkbox"/> Dietary: 1800 ADA Diet	
<input type="checkbox"/> Dietary: 2 gram sodium diet	
<input type="checkbox"/> Dietary: 2000 ADA Diet	
<input type="checkbox"/> Dietary: 2200 ADA Diet	
<input type="checkbox"/> Dietary: low fat / low cholesterol diet	

210

206 → Fig. 13

Lab Form

Patient: Doe, John
SSN: 123-12-1234
Date: 01/03/1999

Print Close

Blood Results | Urine Results | Renal Artery Duplex Scan | Echocardiogram |

Reference Ranges | Calculated Diagnoses/Comments

218

BLOOD TEST RESULTS	
Fasting:	Yes
Sodium:	[mmol/L]: 135-145
Potassium:	[mmol/L]: 3.5-5.3
Chloride:	[mmol/L]: 95-110
Carbon Dioxide:	[mmol/L]: 20.0-30.0
BUN:	[mg/dL]: 7-20
Creatinine:	1.2 [mg/dL]: 0.6-1.2
Glucose:	110 [mg/dL]: 70-110
BUN / Crea ratio:	7-20
Anion Gap:	[mmol/L]: 5-20
Bilirubin, Direct:	[mg/dL]: 0.0-0.4
Bilirubin, Indirect:	[mg/dL]: 0.0-0.8
Calcium:	[mg/dL]: 8.2-10.6
Albumin / Pre-albumin	

EGFR: 53.0%
(110-126= Impaired Fasting Glucose)

216 → Fig. 14

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION
First Named Inventor: John M. Flack
Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

13/25

lab_orders_index : Form

Order Date:	01/03/1999	Delete This Order	Close
Ordering Physician:	Flack, John M.	Order Lab Tests From Sheet	
Labs Available			
Test(s) Ordered:	Status:	ReOrder Date:	
Urine Albumin	<input checked="" type="checkbox"/> Done <input type="checkbox"/> Not Done		
Crea (Serum)	<input checked="" type="checkbox"/> Done <input type="checkbox"/> Not Done		
24hr Blood Pressure Monitor	<input checked="" type="checkbox"/> Done <input type="checkbox"/> Not Done		
Lipid Profile	<input checked="" type="checkbox"/> Done <input type="checkbox"/> Not Done		
	<input type="checkbox"/> Done <input type="checkbox"/> Not Done		

Record: [|<](#) [|](#) 1 [|>](#) [|>>](#) of 1

222 {
224 }
226 Fig. 15

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack
Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

14/25

Secondary HTN

Patient: Doe, John
SSN: 123-12-1234 Close

Renovascular Hypertension | Hyperaldosteronism | Pheochromocytoma | Cushing's Syndrome | Hyperthyroidism / Hypothyroidism |

Renovascular Test:	Test Date:	Diagnosis:	Diag Date:	Actions Taken / Findings:
Captopril Renogram				Location: <input type="text"/>
*				Location: <input type="text"/>

Lab Date: 01/03/1999

Right Kidney:

PSV RRA Origin:	<input type="checkbox"/> (<180 cm/sec)
PSV RRA Mid:	<input type="checkbox"/> (180 cm/sec)
PSV RRA Distal:	<input type="checkbox"/> (>180 cm/sec)
RT Renal / Aortic Ratio:	<input type="checkbox"/> (<3.5)
Right Kidney:	<input type="checkbox"/>

Left Kidney:

PSV LRA Origin:	<input type="checkbox"/> (<180 cm/sec)
PSV LRA Mid:	<input type="checkbox"/> (180 cm/sec)
PSV LRA Distal:	<input type="checkbox"/> (>180 cm/sec)
LT Renal / Aortic Ratio:	<input type="checkbox"/> (<3.5)
Left Kidney:	<input type="checkbox"/>

Records: 14 | 1 | 1 > [x] [x] of 2

232

228 ↑

Fig. 16

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack
Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

15/25

EGFR Calculator

Patient: Doe, John
SSN: 123-12-1234

[Close](#)

Always verify that the information below is accurate

236

Age: (yr)

Sex:

Height: (in)

Weight: (lb)

Serum Creatinine: (mg/dl)

EGFR: 39.3

Note: Although the data imported is from the patient record, field changes made on this form are NOT stored in the patient record.

234 ↗

Fig. 17

LDL Cholesterol Goal

Patient: Doe, John
SSN: 123-12-1234

[Close](#)

Always verify that the information below is accurate

Goal LDL: Less than or equal to 100 mg/dl

Age:

Sex:

Family His of CHD:

Smoking:

Hypertension:

CHD:

Diabetes:

HDL: mg/dl

LDL: mg/dl

*required field if CHD = "No"

240

LDL / HDL Lab Results Summary:

VDATE	FASTING	LDL	HDL
01/03/1999	Yes	150	60

238 ↗

Fig. 18

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack

Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

16/25

Impression / Treatment Plan

Patient: Doe, John

SSN: 123-12-1234

Visit Date: 1/3/99

244{

Lab Orders	
► Urine Albumin	[button]
Crea (Serum)	[button]
24hr Blood Pressure Monitor	[button]

Close

Order Lab Tests From Sheet

Open Calculated Statements

Impression | Treatment Plan | 254

Impression:

Gentleman with ESRD on peritoneal dialysis with HTN of unknown duration. His symptoms of dyspnea on moderate exertion point to the need to screen for systolic and diastolic heart dysfunction and, if systolic dysfunction is present, to consider combined hypertensive and ischemic cardiomyopathy. I suspect that he has some peripheral arterial disease and mild claudication symptoms. He is currently impotent, a problem likely secondary to his hypertension and radiation treatment for prostate cancer. Atherosclerosis also may be playing a role in his impotence. His cerebellar dysmetria is possibly linked to remote ETOH intake. Some of his breathlessness also may relate to primary pulmonary disease. Combined systolic and diastolic hypertension in a significantly overweight patient.

Other Visit Impression(s) for Patient Preformatted Statements (A) | Preformatted Statements (B) | Preformatted Statements (C) | 250

245 ↗
252 ↗
248 ↗

Blood pressure elevation in a significantly overweight person who is not currently adhering to any lifestyle modifications and also discussed the long-term need for blood pressure medications if pressure levels do not come down.

Combined systolic and diastolic hypertension in a significantly overweight patient.

Consider possible sleep apnea, since patient is overweight and also gives Hx of snoring at night.

Diet is likely a problem by the patient's own admission.

Excellent blood pressure control, patient is at goal.

Excellent blood pressure response, however, still above goal. Patient has seen a dietician and is on a low-fat, low-salt diet.

246 ↗

Fig. 19

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack

Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

17/25

Impression / Treatment Plan

Patient: Doe, John SSN: 123-12-1234 Visit Date: 1/3/99	Lab Orders ► Urine Albumin □ Creat (Serum) 24hr Blood Pressure Monitor	Close Order Lab Tests From Sheet Open Calculated Statements
Impression: Treatment Plan: _____		
Treatment Plan: Renal artery duplex scan, stress echocardiogram, start Norvasc 2.5 mg Q day, EKG, and review his labs and serum TSH. Will consider treatment with Viagra for his impotence if he does not have easily induced coronary ischemia on stress echocardiography.		
Other Visit Treatment Plan(s) for Patient: Preformatted Statements (A) Preformatted Statements (B) Preformatted Statements (C)		
<ul style="list-style-type: none">Return to clinic in 2-3 weeks.Return to clinic in 3 months.Return to clinic in 4-6 months.Return to clinic in 4-6 weeks.The patient is being referred to the dietician for a 2 gram sodium, low-fat, low-cholesterol diet.U/G check later. BUN and creatinine on return.		

Fig. 20

254

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack

Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

18/25

Diagnostic subform

M_____ Calculated Statements

Meets criteria for HTN based on diabetes, CHF, CR/ and SBP at least 130 or DBP at least 85 or on antihypertensive meds

It is prudent to wait ~4 to 6 weeks prior to initiating antihypertensive medications to maximize BP lowering and to minimize drug-related side effects.

Meets criteria for impaired fasting glucose based on lab results

For patients with ED: 1)if hypertension, avoid thiazide diuretics, beta blockers (particularly older ones), and central adrenergic inhibitors. Favor use of alpha blockers. 2) Consider sildenafil/Viagra.

Preventive: Patients 50 years and older should have colonoscopy if primary relative has colorectal cancer and every 5 years after 2 negative exams.

Preventive: Patients 40 years and older should have stool checked for occult blood

Due to history of sulfa drug allergy, avoid thiazide diuretics or use them with caution.

Due to history of CHF, avoid use of thiazolidinediones and metformin.

In asthmatics with ASA sensitivity, non-acetylated salicylates (Trilisate, Disalcid, etc.) are less likely to cause severe bronchospasm & anaphylactoid reactions. However, these reactions may occur with any NSAID.

256 →

Fig. 21

19/25

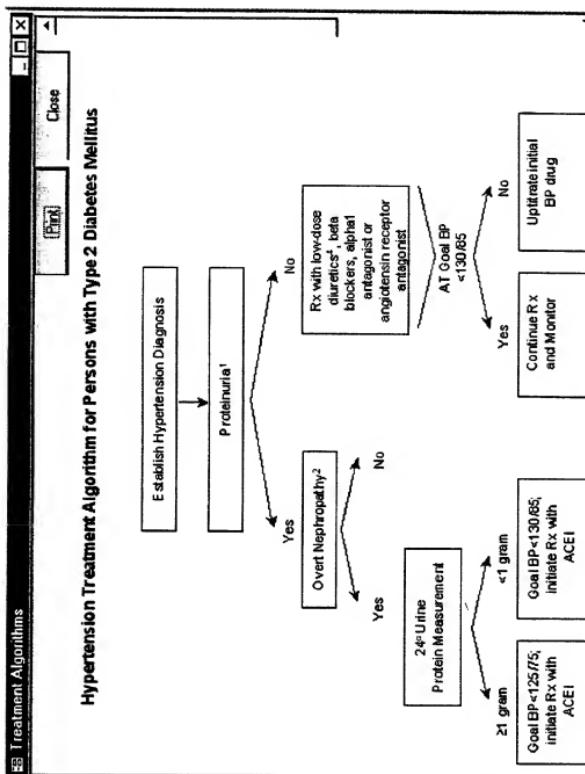


Fig. 2.2

257

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack

Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

20/25

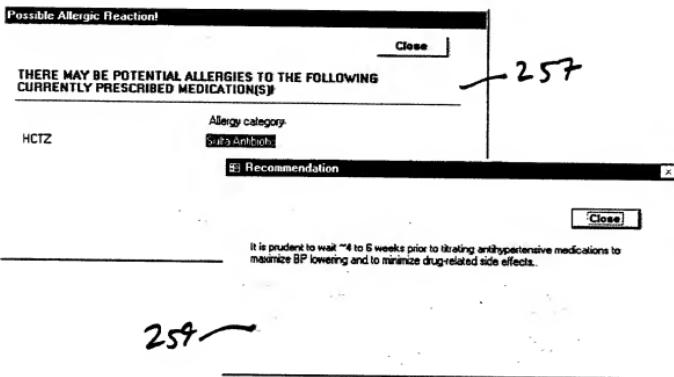


Fig. 2.3

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack
Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

21/25

262 ↘

Referral Letter Form

Wayne State University Internal Medicine RE: DOE, JOHN A.
Med Rec#: 123-12-1234 Print Close

November 15, 2000

REFERRING PHYSICIAN INFORMATION:

First Name: John	Address1: 4201 St Antoine, Suite 7A
MI: A	Address2: University Health Center
Last Name: Salameer	City: Detroit
Degree: MD	State: MI
Phone: (313) 745-8000	Zip: 48201
Fax: (313) 745-8545	Comments: _____
Email: psalameer@med.wayne.edu	_____

Dear Dr. Salameer,

Please see attached for your medical record of John Doe DOB 3/5/1955 for evaluation. Attached is a copy of my office note.

IMPRESSION:

Gentlemen with ESRD on peritoneal dialysis with HTN of unknown duration. His symptoms of dyspnea on moderate exertion point to the need to rule out periodic and diastolic HTN and, if systolic dysfunction is present, to consider combined hypertensive and atherosclerotic cardiopathology. I suspect that he has some peripheral arterial disease and mild coronary syndrome. His currently important, a problem likely secondary to his hypertension and radiation treatment for prostate cancer. Alcoholics also may be playing a role in his importance. His carotid bruits are possibly linked to remote ETOH intake. Some of his breathlessness also may relate to primary pulmonary disease.

PROBLEMS:

Problem: Hypertension	Comment: Resolved
LVA	
Pulmonary Hypertension	
End Stage Renal Disease (ESRD)	
Dyspnea on Exertion	+block, probable cause emphysema

ADDITIONAL PROBLEMS:

Problem: Mid global dysfunction; EF 45-50%	Comment: Resolved
Vascular heart disease; mid AI, MR	

260 ↗ Fig. 24

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack

Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

22/25

Referral Letter Form

Wayne State University Internal Medicine	RE: DOE, JOHN A.	Print Letter	Close
November 14, 2000	Med Rec#: 123-12-1234		
Physician Directory: <input type="button" value="Append Selected Physician"/>			
REFER TO:			
Physician Name: Fredrick	M	Smith	MD
First	MI	Last	Degrees (MD, MPH)
Address 1: 123 3rd Ave.	Address 2: Suite 4A		
Detroit	MI	42021	(313) 555-6823
Cty	State	Zip	Phone
			Fax
			Email
Dear Dr. Smith,			
I am referring this patient to you for . I have included my visit notes.			
IMPRESSION:			
Gentleman with ESRD on peritoneal dialysis with HYN of unknown duration. His symptoms of dyspnea on moderate exertion point to the need to screen for systolic and diastolic heart dysfunction and, if systolic dysfunction is present, to consider combined hypertension and ischemic cardiomyopathy. I suspect that he has some peripheral arterial disease and mild claudication symptoms. He is currently impotent.			
Records: 14 1 1 > > > of 1 (Filtered)			

264

Fig. 25

266

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION
First Named Inventor: John M. Flack
Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

23/25

Print Request

Patient: Doe, John|

SSN: 123-12-1234

Close

Visit Selected: 01/03/1999

Print Menu

Preview

PDF

Print

Patient History	60°		
Review of Systems	60°		
Preventive Health / Sleep Apnea	60°		
Current Meds Only	60°		
Full Medicine List	60°		
Visit Vitalis / Problems / Complaint	60°		
Physical / Impression / Plan	60°		
Diabetes Care	60°		
Secondary Hypertension Summary	60°		
BioZ (plethysmography)	60°		
MedTrace Calculated Comments	60°		
Print Thank You Letter for Referring Doctor			
Print Visit Reports			

268↑

Fig. 26

272

Title: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR MANAGING PATIENT
HEALTHCARE AND EVALUATING PATIENT KIDNEY FUNCTION

First Named Inventor: John M. Flack

Application Serial No.: / Atty. Docket No.: MTS 0102 PUS

24/25

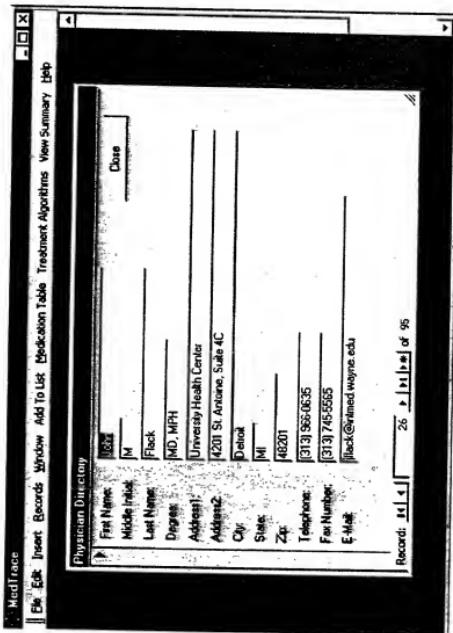


Fig. 27

274A

25/25

Clinical Administrative Report

REPORT PARAMETERS

Physician Provider

- All
- Physician A
- Physician B
- Physician C
- Physician D

Age (Years)

- thru
 All Ages

Time Period

- month thru month
 year thru year

Report Variables

- % Visits at or Below JNC-VI
- % Attaining Goal BP
- Average # of Follow-Up Visits
- Average Number of Baseline Hypertensive Medications
- Average # Number of Follow-up Anti-Hypertensive Medications
- Average pretreatment Blood Pressure
- Average Blood Pressure Reduction From Baseline

Race/Ethnicity

- All Race/Ethnic Groups
- White
- African American
- Hispanic
- Native American
- Asian/Pacific
- Other

Sex

- men women
 both

Fig. 28

276 ↑